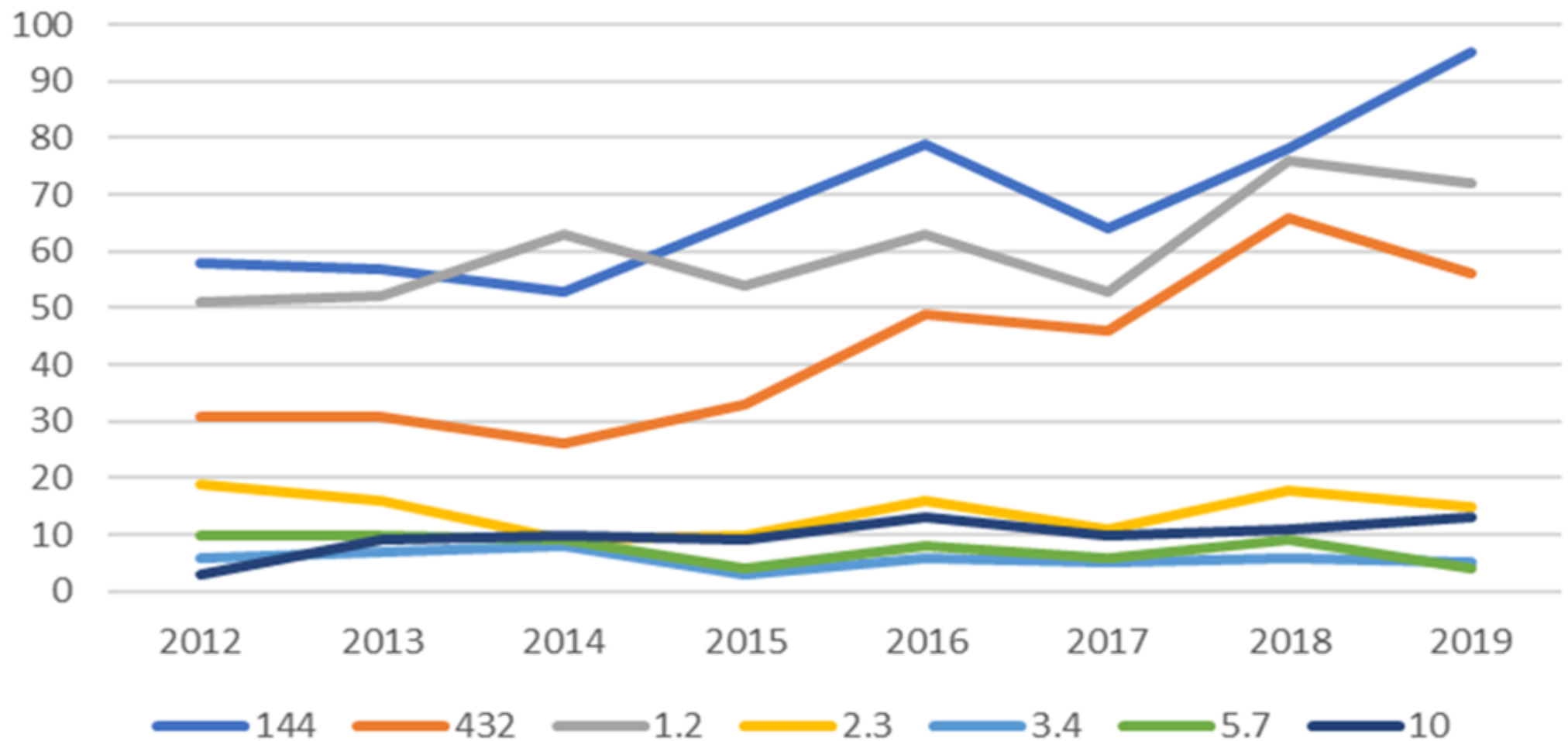


# EME Band and Mode Activity

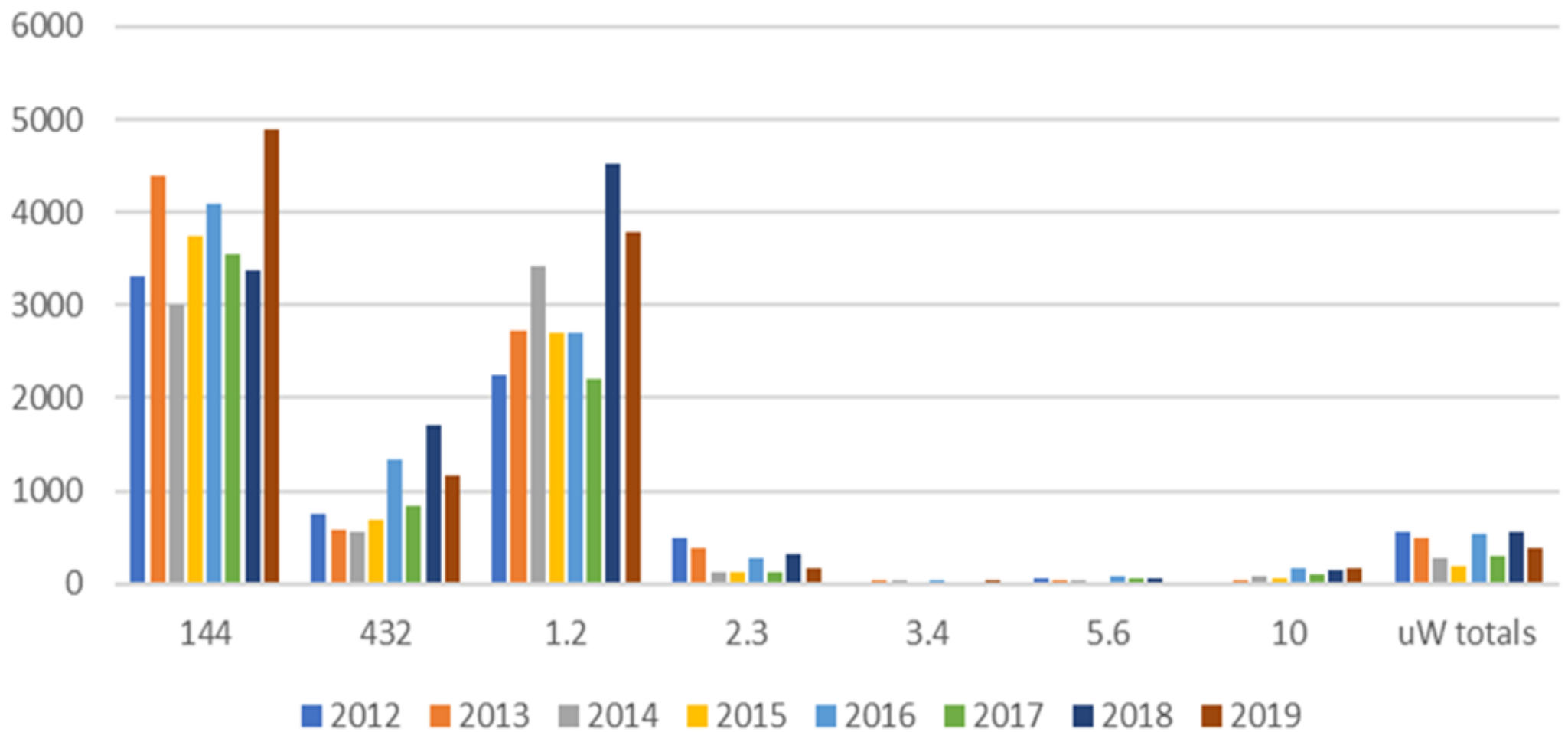


**What are the Best Options for Me?**

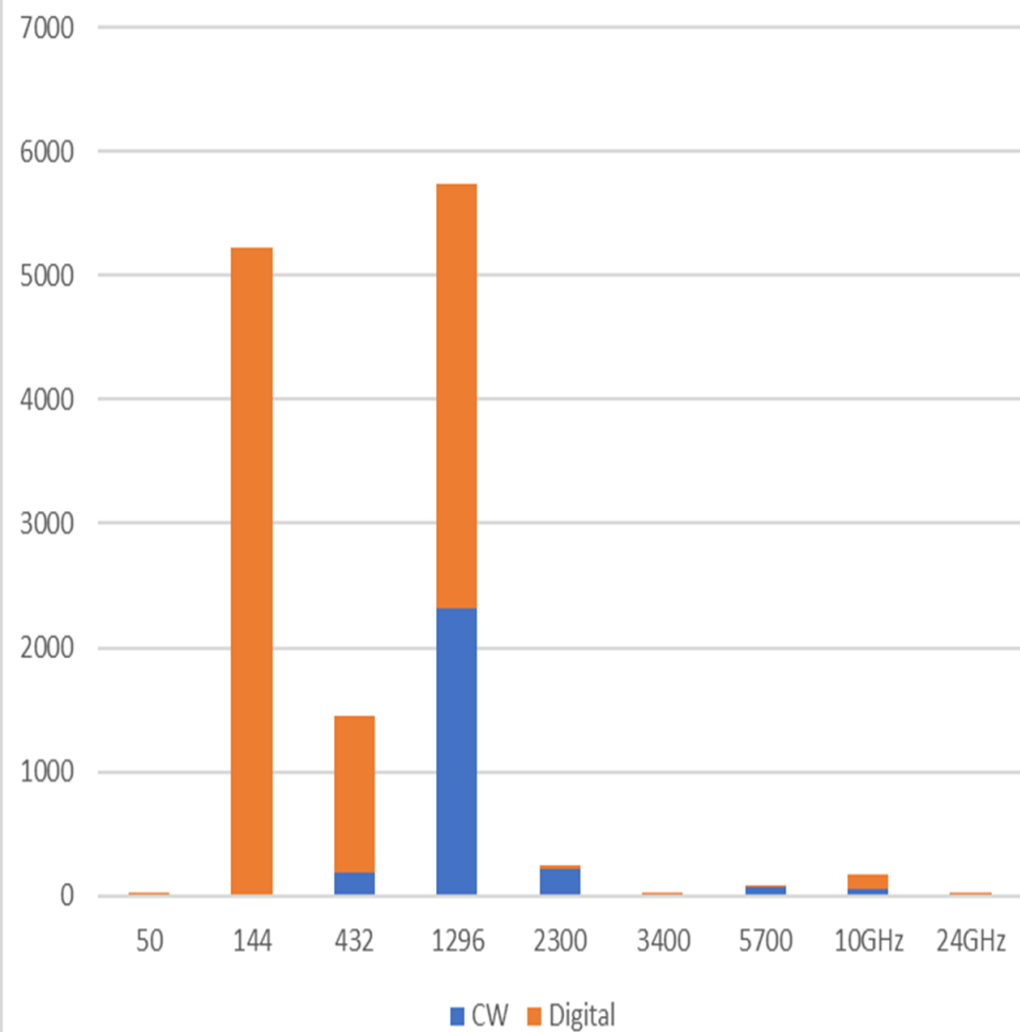
## ARRL EME Contest Log Submissions by Band



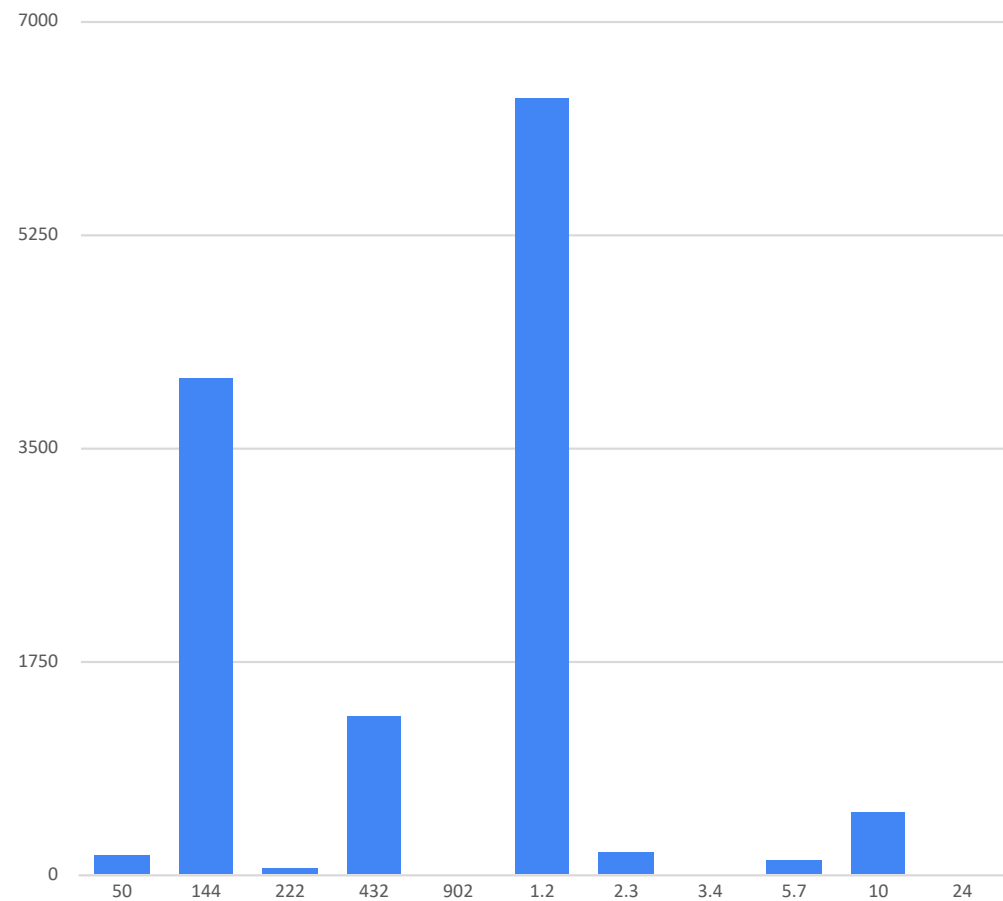
## ARRL EME Contest Contacts by Band



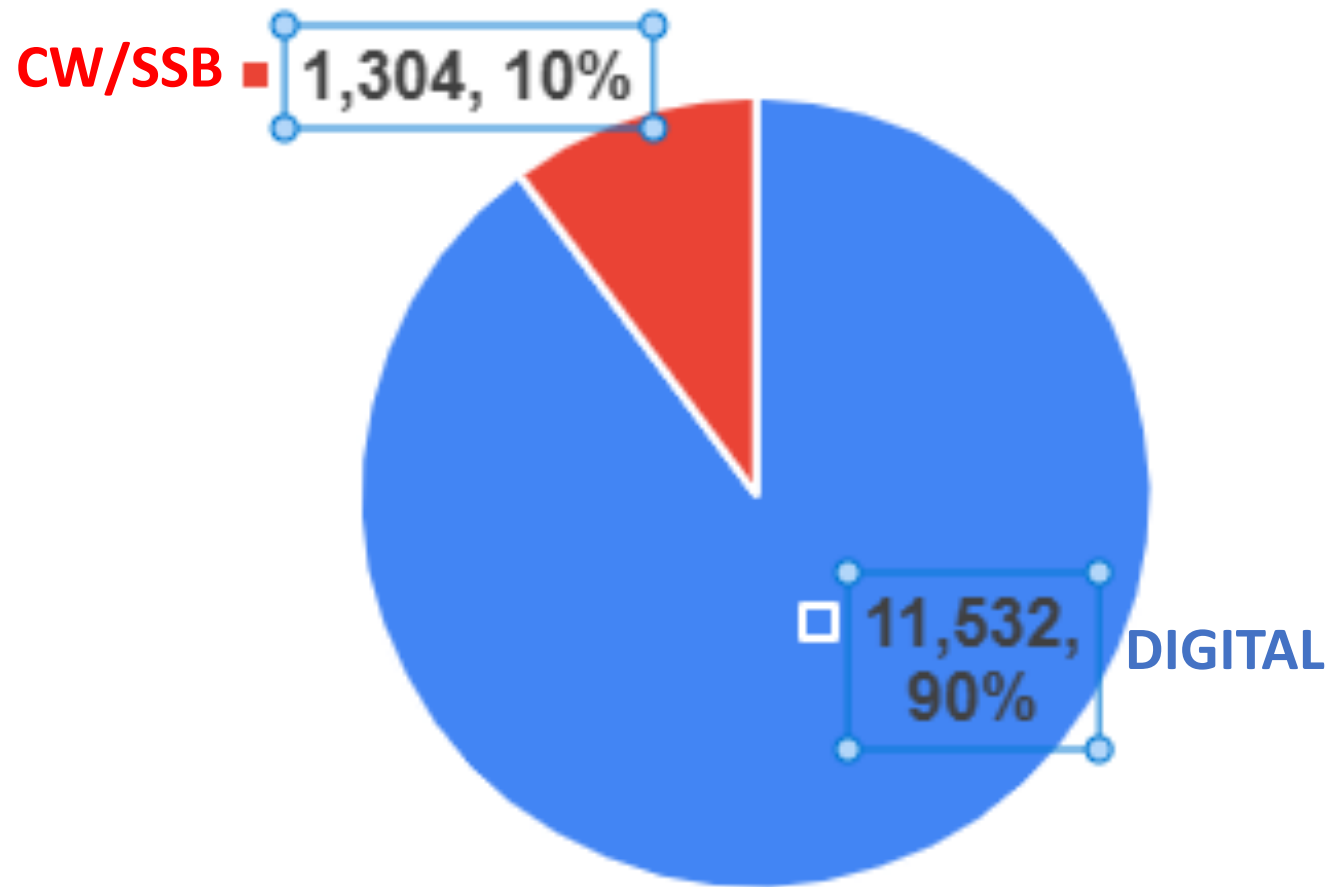
Reported QSOs by Band & mode **2020**



Reported QSOs by Band 2023



## ARRL EME Contest QSOs by Mode 2023



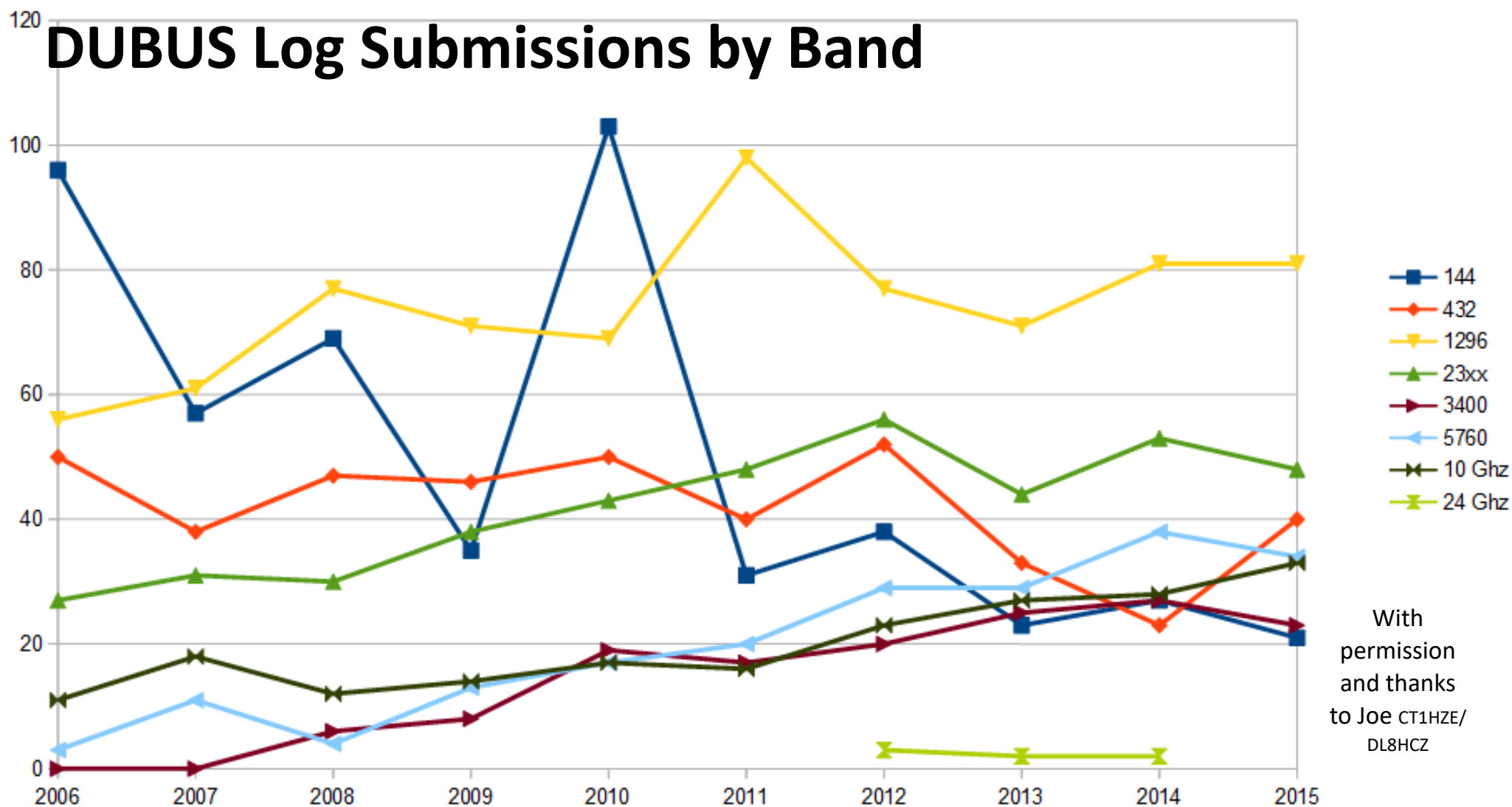
## ARRL EME Contest 2020 QSOs by Band and Mode

Band	CW	Digital	Total QSOs	Users
50	0	27	27	2
144	2	5215	5217	121
432	191	1252	1443	83
1296	2316	3416	5732	108
2300	210	43	253	20
3400	11	2	13	5
5700	76	1	77	7
10GHz	50	126	176	13
24GHz	5	3	8	2
Totals	2861	10085	12946	

## **What's Happening in the ARRL EME Contests?**

- **Dominant activity on 144, 432 & 1296**
- **144 is 99.9% WSJT digital modes**
- **Growth of participants and log submission**
- **Modest increases on 2.3GHz and 10GHz**
- **Growing use of Q65 mode**
- **Additional digital sub-modes for microwaves**

# DUBUS Log Submissions by Band



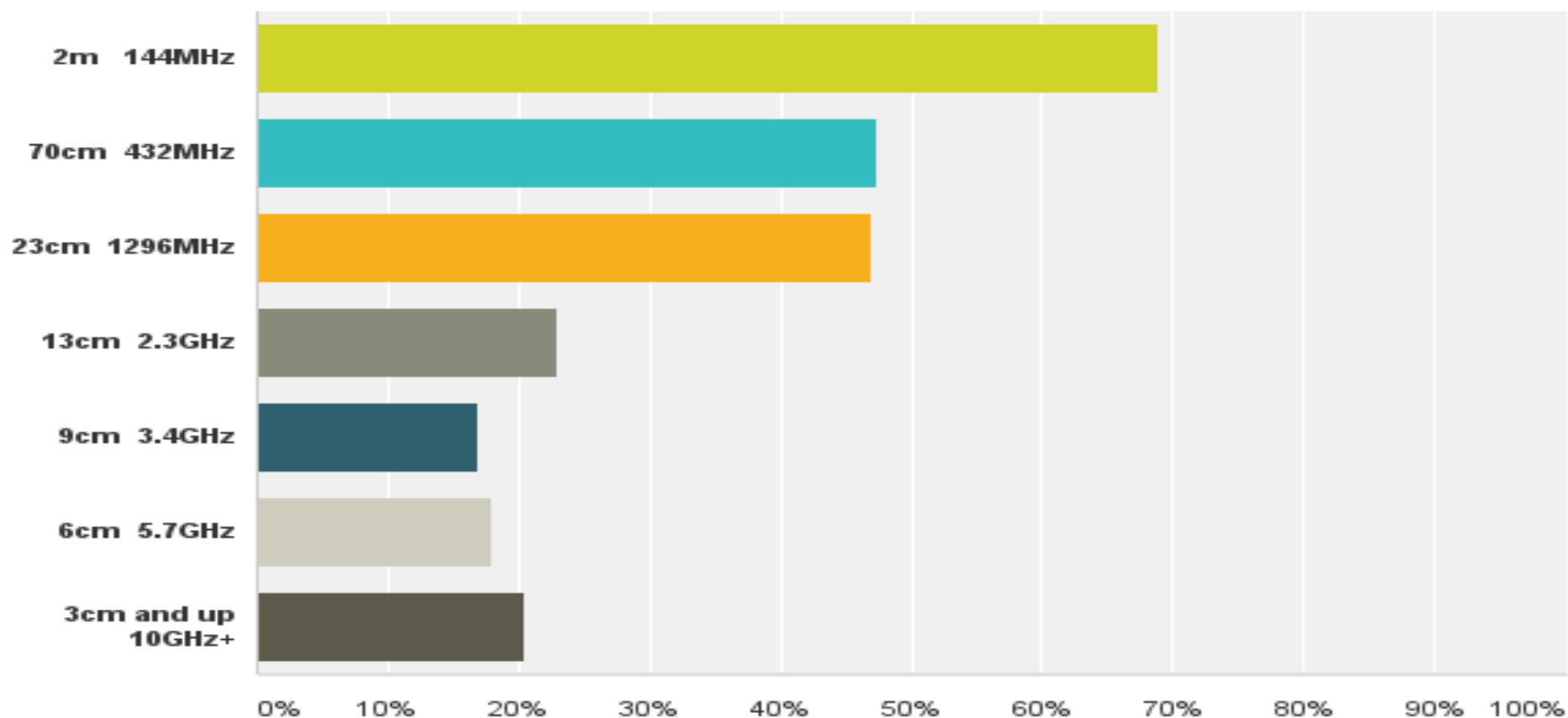
With  
permission  
and thanks  
to Joe CT1HZE/  
DL8HCZ



2016

## Q1 I have active capability on EME on the following bands

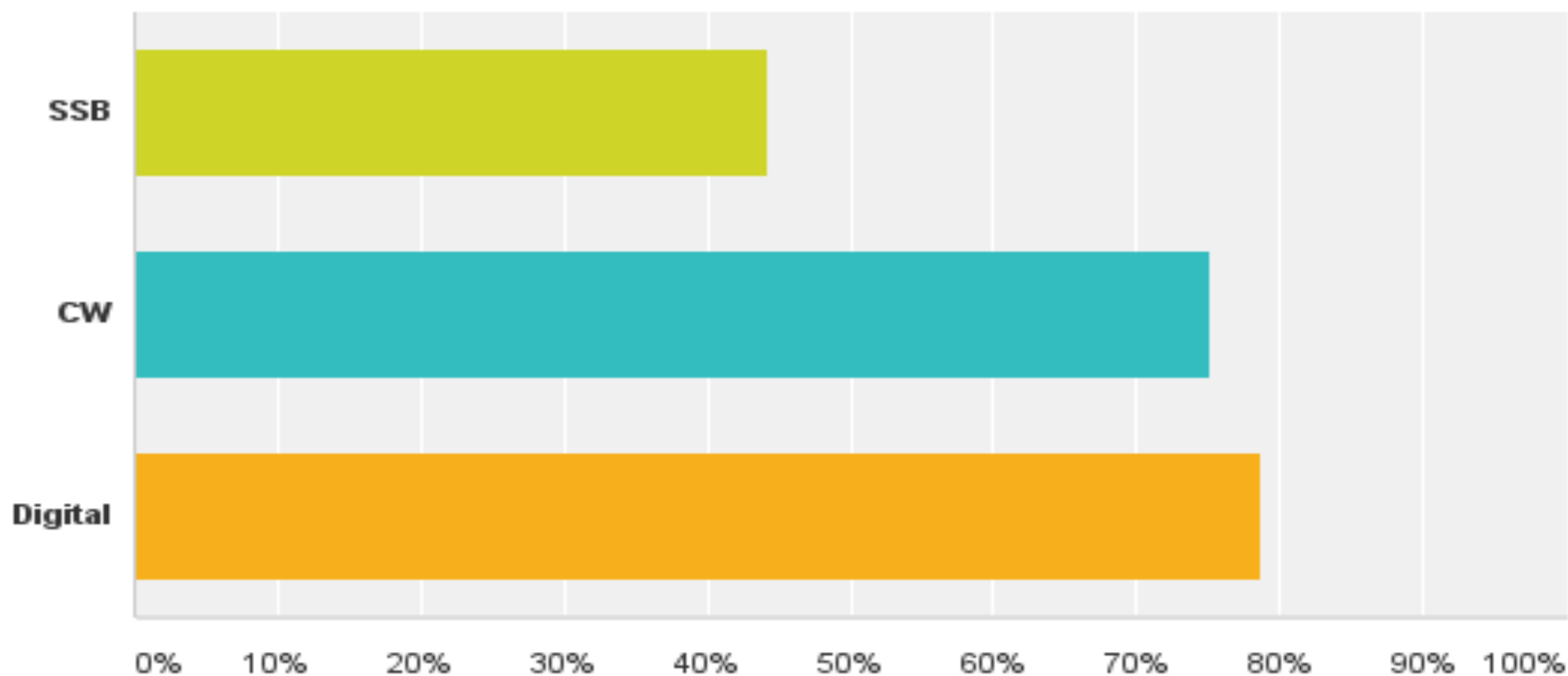
Answered: 196 Skipped: 3



016

### Q3 I have operated the following modes:

Answered: 197 Skipped: 2



# Important Considerations

- Where does the moon rise and set at my QTH?
- Are there obstacles or trees blocking the moon at my QTH?
- Where could I place the antenna?
  - Ground mount
  - Tower mount
  - Roof mount
  - Portable
- How far from the “shack” would the antenna be?
- Path for cabling and possibly power

# 144 MHz Band Considerations

## 144 Pros

- Most equipment readily available
- Lots of activity
- Can start small and grow
- No need for CW
- No Doppler concerns
- Earn WAS and/or DXCC
- Antenna pointing less critical
- Ground gain
- Dedicated N00K chat room
- 144MHz EME newsletter

## 144 Cons

- Faraday rotation can interrupt activity
- Antennas can be large & bulky
- Stacking and splitters complexities
- Possible need for cross-polarized Yagis
- 99.9% Limited to digital



# 432 MHz Band Considerations

## **432 Pros**

- Substantial activity
- Antennas more easily handled
- Stacking smaller distances
- Modest Doppler
- CW or Digital modes
- Possible ground gain
- 432 & Up newsletter

## **432 Cons**

- Faraday rotation can interrupt activity
- Stacking and splitters complexities
- Possible need for cross-polarized Yagis



**Little dish, big dish, what's your wish?**



# 1296 Band Considerations

## **1296 Pros**

- “Into the microwaves—exotic”
- Lots of activity
- Circular polarization
- Ground mounted antenna
- Stepping stone to higher bands
- Lots of CW, digital & even rare SSB
- 432 & Up newsletter
- Yagi antenna possibilities

## **1296 Cons**

- No such thing as a free dish
- Pricier power amplification
- Dish bulky to handle and mount
- Dish pointing more complex



# Other Band Thoughts

- 50 MHz—minimal activity, big antenna. Dxpeditions W7GJ
- 222 MHz—growing activity in US, pallet SSPAs + single Yagi
- 2.3 GHz---next band after 1.2G, use same dish, cross-band 2.320G
- 3.4 GHz---minimal activity, changing allocations
- 5.7GHz---modest activity, tighter dish pointing
- 10 GHz---growing participation, smaller dish, tenth of degree pointing, 10GHz EME beacon, specialized digital program, CW activity, huge Doppler

